

Franklin Square Hospital Center

Baltimore, MD



Breadth Proposal

Cassandra Watson | Lighting + Electrical

Electrical Advisor | Professor Dannerth

Lighting Advisor | Dr. Mistrick

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Breadth 1: Mechanical

An east facing façade of the waiting area receives direct solar gain in the morning hours. The unwanted gain or loss from the building will be calculated for different days during the year. A new façade fritted glass material will be implemented and the heat gain/loss will be recalculated for the same days throughout the year. An analysis of the two materials will be performed and a recommendation will be made.

Breadth 2: Acoustical

The waiting area of any hospital is usually filled with noise created by people and audio visual equipment located within the space. An acoustical study of the reverberation time in the pediatrics waiting area will be performed. A low parameter is desired to absorb the noise within the space. Based on the reverberation time, the material properties in the room can be changes and a recalculation can be carried out. The sound transmission class of the walls will be analyzed and recommendations will be made if changes are necessary.